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Substitute for form 1449PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

13

**Complete If Known**

Application Number	10/661,403
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1648
Examiner Name	Sharon L. Hurt

Attorney Docket Number 16051-4US CC

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number – Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
Sh		US-5,563,050			
Sh		US-6,506,559			
Sh		US-5,023,252			
Sh		US-5,580,859			
Sh		US-4,806,463			
Sh		US-5,248,670			
Sh		US-5,591,720			
Sh		US-5,952,490			
Sh		US-5,998,602			
Sh		US-6,184,369			
Sh		US-5,264,423			
Sh		US-5,276,019			
Sh		US-6,316,190			
Sh		US-5,218,103			
Sh		US-5,684,148			
Sh		US-5,452,496			
Sh		US-5,278,302			
Sh		US-5,750,666			
Sh		US-5,602,244			
Sh		US-5,508,270			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Sh		WO 03/02903				
Sh		WO 99/32619				
Sh		WO 01/75164				
Sh		WO 92/03051				
Sh		WO 94/17093				
Sh		WO 94/02499				
Sh		WO 94/26764				
Sh		WO 97/13499				

Examiner  
Signature*Sharon Hurt*Date  
Considered

Dec 6, 2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is made. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

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Sh		US-5,610,289			
Sh		US-5,256,775			
Sh		US-5,366,878			
Sh		US-5,476,925			
Sh		US-5,023,243			
Sh		US-5,130,302			
Sh		US-5,177,198			
Sh		US-5,378,825			
Sh		US-5,386,023			
Sh		US-5,489,677			
Sh		US-5,264,562			
Sh		US-5,264,564			
Sh		US-5,223,618			
Sh		US-5,770,713			
Sh		US-5,543,152			
Sh		US-4,426,330			
Sh		US-4,534,899			
Sh		US-5,705,188			
Sh		US-5,013,556			

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Sh		WO 90/04384			
Sh		WO 97/30731			
Sh		EP 0 496 813 B1			
Sh		EP 0 445 131 B1			
Sh		WO 91/05545			
Sh		WO 94/20073			
Sh		WO 96/10391			
Sh		WO 98/39352			

Examiner Signature	<i>Sharon L. Hurt</i>	Date Considered	<i>Dec 6, 2006</i>
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				First Named Inventor	Andrew Vaillant et al.
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Sheet	3	of	13	Attorney Docket Number 16051-4US CC	

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Sh		US-5,514,788			
Sh		US-5,652,355			
Sh		US-6,143,881			
Sh		US-6,346,614			
Sh		US-5,591,721			
Sh		US-6,608,035			
Sh		US-3,687,808			
Sh		US-5,625,050			

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				Art Unit	1648
				Examiner Name	Sharon L. Hurt
(use as many sheets as necessary)					
Sheet	4	of	13	Attorney Docket Number	
16051-4US CC					

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

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				Art Unit	1648
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NON PATENT LITERATURE DOCUMENTS			
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SH		ADJOU <i>et al.</i> , "A novel generation of heparan sulfate mimetics for the treatment of prion diseases", 2003, <i>J. Gen. Virol.</i> 84:2595-2603.	
SH		AGRAWAL, "Importance of nucleotide sequence and chemical modifications of antisense oligonucleotides", 1999, <i>Biochim. Biophys. Acta</i> 1489:53-68.	
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SH		AKHTAR <i>et al.</i> , "The delivery of antisense therapeutics", 2000, <i>Advanced Drug Delivery Reviews</i> 44:3-21.	
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SH		ANDREOLA <i>et al.</i> , "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", 2001, <i>Biochemistry</i> , 40:10087-10094.	
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SH		BALL <i>et al.</i> , "Clinical Potential of Respirable Antisense Oligonucleotides (RASONS) in Asthma", 2003, <i>Am. J. Pharmacogenomics</i> 3 (2):97-106.	
SH		BANKS <i>et al.</i> , "Delivery across the Blood-Brain Barrier of Antisense Directed against Amyloid β: Reversal of Learning and Memory Deficits in Mice Overexpressing Amyloid Precursor Protein", 2001, <i>J. Pharmacol. Exp. Ther.</i> 297 (3):1113-1121.	
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				Application Number	10/661,403
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				Art Unit	1648
				Examiner Name	Sharon L. Hurt
Sheet	6	of	13	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS				
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Sh		BARRET et al., "Evaluation of Quinacrine Treatment for Prion Diseases", 2003, J. of Virol. 77 (15):8462-8469.		
Sh		BATE et al., "Squalestatin Cures Prion-infected Neurons and Protects Against Prion Neurotoxicity", 2004, J. of Biol. Chem. 279 (15):14983-14990.		
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Sh		CASPER, "Discovery of a Novel Target for Potential Cancer Therapy", Joint Bayer Science Forum – ACS November 24 <sup>th</sup> Dinner Meeting. 2003, The FILTERPAPER, Andy Edelbrock Bayer Corporation, page 3 (abstract).		
Sh		CAUGHEY et al., "Sulfated Polyanion Inhibition of Scrapie-Associated PrP Accumulation in Cultured Cells", 1993, J. Virol. 67 (2):643-650.		
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Sh		CHEONG et al., "Structure of influenza virus panhandle RNA studied by NMR spectroscopy and molecular modeling", 1999, Nuc. Acids. Res. 27 (5): 1392-1397.		
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Sh		CROOKE et al., "In Vitro Toxicological Evaluation of ISIS 1082, a Phosphorothioate Oligonucleotide Inhibitor of Herpes Simplex Virus", 1992, <i>Antimicrob. Agents Chemother.</i> 36 (3):527-532.	
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Sh		GARRETT et al., "In vivo use of oligonucleotides to inhibit choroidal neovascularisation in the eye", 2001, <i>J. Gene Med.</i> 3:373-383.	

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Sh		GORLACH et al., "Antisense repression in <i>Cryptococcus neoformans</i> as a laboratory tool and potential antifungal strategy", 2002, <i>Microbiology</i> 148:213-219.	
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Substitute for form 1449PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/661,403
Sheet	9	of	13	Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Sharon L. Hurt
				Attorney Docket Number	16051-4US CC

NON PATENT LITERATURE DOCUMENTS			
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SH		KOSTER et al., "Emerging therapeutic agents for transmissible spongiform encephalopathies: a review", 2003, <i>J. Vet Pharmacol. Ther.</i> 26:315-26.	
SH		KURRECK, "Antisense technologies. Improvement through novel chemical modifications", 2003, <i>Eur. J. Biochem.</i> 270:1628-1644.	
SH		KUWASAKI et al., "Inhibition of human immunodeficiency virus 1 replication <i>in vitro</i> by a self-stabilized oligonucleotide with 2'-O-methyl-guanosine-uridine quadruplex motifs", 2003, <i>J. Antimicrob. Chemother.</i> 51:813-819.	
SH		LAU et al., "Abrogation of c-Raf expression induces apoptosis in tumor cells", 1998, <i>Oncogene</i> 16:1899-1902.	
SH		LEUNG and SHAH, in: <i>Controlled Release of drugs: Polymers and aggregate systems</i> , Rosoff, M., Ed., 1989, VCH Publishers, New York, pages 185-215.	
SH		LUO et al., "Inhibition of influenza viral polymerases by minimal viral RNA decoys", 1997, <i>J. Gen. Virol.</i> 78: 2329-2333.	
SH		de MERGNY et al., "Kinetics and thermodynamics of i-DNA formation: phosphodiester versus modified oligodeoxynucleotides", 1998, <i>Nucleic Acids Res.</i> 26 (21): 4797-4803.	
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SH		MONIA et al., "Evaluation of 2'-Modified Oligonucleotides Containing 2'-Deoxy Gaps as Antisense Inhibitors of Gene Expression", 1993, <i>J. Biol. Chem.</i> 268 (19) :14514-14522.	
SH		MORASSUTTI et al., "Effect of phosphorothioate modifications on the ability of GTn oligodeoxynucleotides to specifically recognize single-stranded DNA-binding proteins and to affect human cancer cellular growth" 1999, <i>Biochimie</i> 81:1115-1122.	

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Sh		MOU and GRAY, "The high binding affinity of phosphorothioate-modified oligomers for Ff gene 5 protein is moderated by the addition of C-5 propyne or 2'-O-methyl modifications", 2002, <i>Nucleic Acids Res.</i> 30 (3):749-758.		
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Sh		NOGUCHI et al., "Remarkable induction of apoptosis in cancer cells by a novel cationic liposome complexed with a bcl-2 antisense oligonucleotide", 2003, <i>Journal of Controlled Release</i> 88:313-320.		
Sh		NOONPAKDEE et al., "Inhibition of <i>Plasmodium falciparum</i> proliferation in vitro by antisense oligodeoxynucleotides against malarial topoisomerase II", 2003, <i>Biochem. and Biophys. Res. Commun.</i> 302:659-664.		
Sh		O'BRIEN et al., "Antisense BCR-ABL Oligomers Cause Non-Specific Inhibition of Chronic Myeloid Leukemia Cell Lines", 1994, <i>Leukemia</i> 8 (12):2156-2162.		
Sh		OMORI et al., "Targeting of post-ischemic cerebral endothelium in rat by liposomes bearing polyethylene glycol-coupled transferrin", 2003, <i>Neurol. Res.</i> 25:275-279.		
Sh		Orum et al., "Locked nucleic acids: A promising molecular family for gene-function analysis and antisense drug development", 2001, <i>Current Opinion in Molecular Therapeutics</i> 3 (3):239-243.		
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Sh		PEREZ et al., "Sequence-independent induction of Sp1 transcription factor activity by phosphorothioate oligodeoxynucleotides", 1994, <i>Proc. Natl. Acad. Sci. USA</i> 91:5957-5961.		
Sh		POLI et al.; "In vitro Evaluation of the Anti-prionic Activity of Newly Synthesized Congo Red Derivatives", 2003, <i>Arzneim.-Forsch./Drug Res.</i> 53 (12):875-888.		

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Sh		PRIOLA et al., "Porphyrin and Phthalocyanine Antiscrapie Compounds", 2000, <i>Science</i> 287: 1503-1506.	
Sh		PROSKE et al., "Prion-Protein-Specific Aptamer Reduces PrP <sup>Sc</sup> Formation", 2002, <i>Chemic. Biol. Chem.</i> 3:717-725.	
Sh		RAMAZEILLES et al., "Antisense phosphorothioate oligonucleotides: Selective killing of the intracellular parasite <i>Leishmania amazonensis</i> ", 1994, <i>Proc. Natl. Acad. Sci. USA</i> 91:7859-7863.	
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Sh		ROH et al., "Down-Regulation of HER2/neu Expression Induces Apoptosis in Human Cancer Cells That Overexpress HER2/neu", 2000, <i>Cancer Research</i> 60:560-565.	
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Sh		SCHMIDT et al., "Drug targeting by long-circulating liposomal glucocorticosteroids increases therapeutic efficacy in a model of multiple sclerosis", 2003, <i>Brain</i> 126 :1895-1904.	
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Sh		SMETSERS et al., "An antisense Bcr-Ab1 phosphodiester-tailed methylphosphonate oligonucleotide reduces the growth of chronic myeloid leukaemia patient cells by a non-antisense mechanism", 1997, <i>British Journal of Haematology</i> 96:377-381.			
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Sh		TCHATALBACHEV et al., "The packaging signal of influenza viral RNA molecules", 2001, <i>RNA</i> 7: 979-989.			
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Sh		VAN DEVENTER et al., "A randomised, controlled, double blind, escalating dose study of alicaforsen enema in active ulcerative colitis", 2004, <i>Gut</i> . 53:1646-1651.			
Sh		VINOGRADOV et al., "Nanogels for Oligonucleotide Delivery to the Brain", 2004, <i>Bioconjug. Chem.</i> 15:50-60.			
Sh		WANG et al., "Sequence-independent Inhibition of In Vitro Vascular Smooth Muscle Cell Proliferation, Migration, and In Vivo Neointimal Formation by Phosphorothioate Oligodeoxynucleotides", 1996, <i>J. Clin. Invest.</i> 98 (2):443-450.			
Sh		WHITE et al., "Inhibition of the Multiple Antibiotic Resistance (mar) Operon in <i>Escherichia coli</i> by Antisense DNA Analogs", 1997, <i>Antimicrobial Agents and Chemotherapy</i> 41 (12):2699-2704.			
Sh		WHITE et al., "Development of novel methods for delivering therapeutic oligonucleotides to the central nervous system", 2003, <i>Society for Neuroscience</i> , Program #325.5, Abstract.			
Sh		WHITE et al., "Antisense oligonucleotide treatments for psoriasis", 2004, <i>Expert. Opin. Biol. Ther.</i> 4(1):75-81.			

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<i>SH</i>		XU et al., "Inhibition of DNA Replication and Induction of S Phase Cell Cycle Arrest by G-rich Oligonucleotides", 2001, <i>The Journal of Biological Chemistry</i> 276 (46):43221-43230.				
<i>SH</i>		YANG et al., "Construction and selection of bead-bound combinatorial oligonucleoside phosphorothioate and phosphordithioate aptamer libraries designed for rapid PCR-based sequencing", 2002, <i>Nucl. Acids Res.</i> 30 (23):1-8.				
<i>SH</i>		YU et al., "Hybrid Oligonucleotides: Synthesis, Biophysical Properties, Stability Studies, and Biological Activity", 1996, <i>Bioorganic. Med. Chem.</i> 4 (10):1685-1692.				
<i>SH</i>		YU et al., "Prediction of Clinical Responses in a Simulated Phase III Trial of Crohn's Patients Administered the Antisense Phosphorothioate Oligonucleotide ISIS 2302: Comparison of Proposed Dosing Regimens", 2003, <i>Antisense Nucleic Acid Drug Dev.</i> 13:57-66.				
<i>SH</i>		ZELLWEGER et al., "Antitumor Activity of Antisense Clusterin Oligonucleotides Is Improved in Vitro and in Vivo by Incorporation of 2'-O-(2-Methoxy)Ethyl Chemistry", 2001, <i>J. Pharmacol. and Experimental Therapeutics</i> 298 (3):934-940.				
<i>SH</i>		ZHANG et al., "A Simple Glycol Nucleic Acid", 2005, <i>J. Am. Chem. Soc.</i> 127:4174-4175.				
<i>SH</i>		ZHANG et al., "The Study on Brain Targeting of the Amphotericin B Liposomes", 2003, <i>J. Drug. Target.</i> 11 (2):117-122.				
<i>SH</i>		ZHANG et al., "Global Non-Viral Gene Transfer to the Primate Brain Following Intravenous Administration", 2003, <i>Mol. Ther.</i> 7 (1):11-18.				
<i>SH</i>		<i>The Concise Encyclopedia of Polymer Science and Engineering</i> , Jacqueline I. Kroschwitz, 1998, ISBN: 0-471-31856-6, 1341 pages, pp. 858-859.				

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